

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL SEARCH REPORT  
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 58001-58	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below
International application No. <b>PCT/CA2005/000009</b>	International filing date ( <i>day/month/year</i> ) 06 January 2005 (06-01-2005)	Priority date ( <i>day/month/year</i> ) 09 January 2004 (09-01-2004)
Applicant ALBERTA RESEARCH COUNCIL INC. ET AL		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows :

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC [7] E21B 43/22, C09K 7/02

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC[7] E21B 33/22, C09K 7/02, E21B 43/02, E02D 3/12, E21B 33/138, E21B 33/13, E21B 33/00; USPC 166/273, 166/270, 166/294, 405/264; CPC 31/8, 31/14, 61/48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms)

Questel Orbit Qweb, Delphion, Canadien Patents Database

well\*, foam\*, gel\*, water, polymer, cross-linker or crosslinker, surfactant, influx, infiltration

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
A	CA 2411771 A1 (HIRASAKI, G. et al.) 15 May 2003 (15-05-2003) *Whole Document*	1-20
A	US 6516885 B1 (MUNDAY, K.) 11 February 2003 (11-02-2003) *Whole Document*	1-20
A	US 6431280 B2 (BAYLISS, G. et al.) 13 August 2002 (13-08-2002) *Whole Document*	1-20
A	US 4694906 A (HUTCHINS, R. et al.) 22 September 1987 (22-09-1987) *Cited by Applicant* *Whole Document*	1-20

[ ] Further documents are listed in the continuation of Box C. [X] See patent family annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

07 March 2005 (07-03-2005)

Date of mailing of the international search report

29 March 2005 (29-03-2005)

Name and mailing address of the ISA/CA  
 Canadian Intellectual Property Office  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/CA2005/000009

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2411771 A1	15-05-2003	EP1312753 A1	21-05-2003
		NO20025382 A	16-05-2003
		US6695055 B2	24-02-2004
US6516885 B1	11-02-2003	AU747865 B2	23-05-2002
		AU2286599 A	06-09-1999
		CA2320324 A1	26-08-1999
		DE69916250D D1	13-05-2004
		EP1056926 A1	06-12-2000
		GB2334539 A	25-08-1999
		GB9803331D D0	15-04-1998
		ID25899 A	09-11-2000
		NO20004157 A	18-08-2000
		WO9942700 A1	26-08-1999
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		US2004118559 A1	24-06-2004
US4694906 A	22-09-1987	CA1262819 A1	14-11-1989
		EP0212671 A2	04-03-1987
		NO863473 A	02-03-1987